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Derwent World Patents Index
IBM Technical Disclosure Bulletins

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DATE: Wednesday, June 23, 2004

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<u>L18</u>	L17 and (spatial\$4 with (sensitiv\$4 or distribution))	14	<u>L18</u>
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<u>L3</u>	L2 and (coil with (sensitiv\$4 or distribution))	1642	<u>L3</u>
<u>L2</u>	L1 and (rf or (radio adj frequency) or radio-frequency or radiofrequency)	25464	<u>L2</u>
<u>L1</u>	((magnetic adj resonance) or MRI or NMR)	181870	<u>L1</u>

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 20 of 20 returned.

☐ 1. Document ID: US 20030216637 A1

Using default format because multiple data bases are involved.

L17: Entry 1 of 20

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030216637

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030216637 A1

TITLE: Whole body MRI scanning with moving table and interactive control

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ho, Vincent B.	North Bethesda	MD	US	
Foo, Thomas K.F.	Potomac	MD	US	

US-CL-CURRENT: 600/415; 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWAC	Drawings
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☐ 2. Document ID: US 20030094948 A1

L17: Entry 2 of 20

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030094948

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030094948 A1

TITLE: RF coil and magnetic resonance imaging apparatus

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Okamoto, Kazuya	Saitama-shi		JP	
Hamamura, Yoshinori	Otawara-shi		JP	
Machida, Yoshio	Nasu-gun		JP	

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 3. Document ID: US 20030076099 A1

L17: Entry 3 of 20

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030076099
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030076099 A1

TITLE: Reduced signal to noise ratio array coil image

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hajnal, Joseph V.	London		GB	
Bydder, Mark	London		GB	
Larkman, David J.	London		GB	

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 4. Document ID: US 20030030437 A1

L17: Entry 4 of 20

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030030437
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030030437 A1

TITLE: Magnetic resonance imaging using smash

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bydder, Mark	Ealing		GB	
Hajnal, Joseph V.	London		GB	
Larkman, David J.	London		GB	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 5. Document ID: US 20020158632 A1

L17: Entry 5 of 20

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020158632
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020158632 A1

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sodickson MD Ph.D., Daniel K.	Cambridge	MA	US	

US-CL-CURRENT: 324/307; 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RULE	Drawings
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☐ 6. Document ID: US 20020156362 A1

L17: Entry 6 of 20

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020156362
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020156362 A1

TITLE: Concurrent MRI of multiple objects

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bock, Nicholas A.	London		CA	
Henkelman, R. Mark	Toronto		CA	

US-CL-CURRENT: 600/410; 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RULE	Drawings
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☐ 7. Document ID: US 20010027262 A1

L17: Entry 7 of 20

File: PGPB

Oct 4, 2001

PGPUB-DOCUMENT-NUMBER: 20010027262
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010027262 A1

TITLE: Magnetic resonance angiography using undersampled 3D projection imaging

PUBLICATION-DATE: October 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mistretta, Charles A.	Madison	WI	US	
Barger, Andrew V.	Madison	WI	US	
<u>Block</u> , Walter F.	Madison	WI	US	

US-CL-CURRENT: 600/9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KINC	Drawn
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☐ 8. Document ID: US 6717406 B2

L17: Entry 8 of 20

File: USPT

Apr 6, 2004

US-PAT-NO: 6717406

DOCUMENT-IDENTIFIER: US 6717406 B2

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel K.	Newton	MA		

US-CL-CURRENT: 324/307; 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KINC	Drawn
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☐ 9. Document ID: US 6680610 B1

L17: Entry 9 of 20

File: USPT

Jan 20, 2004

US-PAT-NO: 6680610

DOCUMENT-IDENTIFIER: US 6680610 B1

TITLE: Apparatus and method for parallel MR data acquisition and parallel image reconstruction from multiple receiver coil arrays for fast MRI

DATE-ISSUED: January 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kyriakos; Walid E.	Brookline	MA	02446	
Kacher; Daniel F.	Allston	MA	02134	

US-CL-CURRENT: 324/307; 324/309, 324/314

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KINC	Drawn
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☐ 10. Document ID: US 6549799 B2

L17: Entry 10 of 20

File: USPT

Apr 15, 2003

US-PAT-NO: 6549799

DOCUMENT-IDENTIFIER: US 6549799 B2

TITLE: Concurrent MRI of multiple objects

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bock; Nicholas A.	London			CA
Henkelman; R. Mark	Toronto			CA

US-CL-CURRENT: 600/422; 324/307, 324/309, 600/410, 600/411

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw D
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☐ 11. Document ID: US 6507749 B1

L17: Entry 11 of 20

File: USPT

Jan 14, 2003

US-PAT-NO: 6507749

DOCUMENT-IDENTIFIER: US 6507749 B1

TITLE: Method and apparatus for tracking the motion of fluid and determining a velocity spectrum thereof from MR data acquired in a single cycle

DATE-ISSUED: January 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Macgowan; Christopher K.	Toronto			CA
Wood; Michael L.	Toronto			CA

US-CL-CURRENT: 600/419; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw D
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☐ 12. Document ID: US 6489770 B1

L17: Entry 12 of 20

File: USPT

Dec 3, 2002

US-PAT-NO: 6489770

DOCUMENT-IDENTIFIER: US 6489770 B1

TITLE: Nuclear magnetic resonance imaging apparatus

DATE-ISSUED: December 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hirata; Satoshi	Kokubunji			JP

US-CL-CURRENT: 324/320; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 13. Document ID: US 6487435 B2

L17: Entry 13 of 20

File: USPT

Nov 26, 2002

US-PAT-NO: 6487435

DOCUMENT-IDENTIFIER: US 6487435 B2

**** See image for Certificate of Correction ****TITLE: Magnetic resonance angiography using undersampled 3D projection imaging

DATE-ISSUED: November 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mistretta; Charles A.	Madison	WI		
Barger; Andrew V.	Madison	WI		
<u>Block</u> ; Walter F.	Madison	WI		

US-CL-CURRENT: 600/420; 324/307, 324/309, 600/407, 600/410, 600/415, 600/419

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 14. Document ID: US 6400151 B1

L17: Entry 14 of 20

File: USPT

Jun 4, 2002

US-PAT-NO: 6400151

DOCUMENT-IDENTIFIER: US 6400151 B1

TITLE: Method and apparatus for the acquisition of data for magnetic resonance imaging

DATE-ISSUED: June 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haase; Axel	97222 Rimpar			DE
Jakob; Peter M.	97074 Wurzburg			DE
Hillenbrand; Claudia	97720 Nudlingen			DE
Hahn; Dietbert	97273 Kurnach			DE

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 15. Document ID: US 6366092 B1

L17: Entry 15 of 20

File: USPT

Apr 2, 2002

US-PAT-NO: 6366092

DOCUMENT-IDENTIFIER: US 6366092 B1

TITLE: Magnetic resonance imaging

DATE-ISSUED: April 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ehnholm; Gosta J	Helsinki			FI
Young; Ian Robert	Marlborough			GB

US-CL-CURRENT: 324/309; 324/300, 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 16. Document ID: US 6289232 B1

L17: Entry 16 of 20

File: USPT

Sep 11, 2001

US-PAT-NO: 6289232

DOCUMENT-IDENTIFIER: US 6289232 B1

TITLE: Coil array autocalibration MR imaging

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jakob; Peter M.	Brookline Village	MA		
Sodickson; Daniel K.	Cambridge	MA		
Griswold; Mark	Brookline	MA		

US-CL-CURRENT: 600/410; 324/307, 324/309, 324/318, 324/322, 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 17. Document ID: US 5910728 A

L17: Entry 17 of 20

File: USPT

Jun 8, 1999

US-PAT-NO: 5910728
DOCUMENT-IDENTIFIER: US 5910728 A

TITLE: Simultaneous acquisition of spatial harmonics (SMASH): ultra-fast imaging with radiofrequency coil arrays

DATE-ISSUED: June 8, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel Kevin	Cambridge	MA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw. De
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☐ 18. Document ID: US 5488299 A

L17: Entry 18 of 20

File: USPT

Jan 30, 1996

US-PAT-NO: 5488299
DOCUMENT-IDENTIFIER: US 5488299 A

TITLE: Nuclear magnetic resonance imaging with improved image quality and operation efficiency

DATE-ISSUED: January 30, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kondo; Masafumi	Tochigi			JP
Kawamoto; Hiromi	Tochigi			JP

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw. De
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☐ 19. Document ID: US 5192909 A

L17: Entry 19 of 20

File: USPT

Mar 9, 1993

US-PAT-NO: 5192909
DOCUMENT-IDENTIFIER: US 5192909 A

TITLE: Spectroscopic localization using pinwheel NMR excitation pulses

DATE-ISSUED: March 9, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Hardy; Christopher J.	Schenectady	NY
Bottomley; Paul A.	Clifton Park	NY
Cline; Harvey E.	Schenectady	NY

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Publ	Draw D
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☐ 20. Document ID: US 4746864 A

L17: Entry 20 of 20

File: USPT

May 24, 1988

US-PAT-NO: 4746864

DOCUMENT-IDENTIFIER: US 4746864 A

TITLE: Magnetic resonance imaging system

DATE-ISSUED: May 24, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Satoh; Kozo	Yokohama			JP

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Publ	Draw D
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ODS	39506
SELECT\$4	0
SELECT	877063
SELECTA	361
SELECTAALE	3
SELECTAB	40
SELECTABE	10
SELECTABEL	9
SELECTABFE	2
SELECTABI	5
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☐ 1. Document ID: US 20030094948 A1

Using default format because multiple data bases are involved.

L21: Entry 1 of 14

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030094948

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030094948 A1

TITLE: RF coil and magnetic resonance imaging apparatus

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Okamoto, Kazuya	Saitama-shi		JP	
Hamamura, Yoshinori	Otawara-shi		JP	
Machida, Yoshio	Nasu-gun		JP	

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 2. Document ID: US 20030076099 A1

L21: Entry 2 of 14

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030076099

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030076099 A1

TITLE: Reduced signal to noise ratio array coil image

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hajnal, Joseph V.	London		GB	
Bydder, Mark	London		GB	
Larkman, David J.	London		GB	

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 3. Document ID: US 20030030437 A1

L21: Entry 3 of 14

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030030437

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030030437 A1

TITLE: Magnetic resonance imaging using smash

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bydder, Mark	Ealing		GB	
Hajnal, Joseph V.	London		GB	
Larkman, David J.	London		GB	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 4. Document ID: US 20020158632 A1

L21: Entry 4 of 14

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020158632

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020158632 A1

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sodickson MD Ph.D., Daniel K.	Cambridge	MA	US	

US-CL-CURRENT: 324/307; 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 5. Document ID: US 20020156362 A1

L21: Entry 5 of 14

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020156362
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020156362 A1

TITLE: Concurrent MRI of multiple objects

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bock, Nicholas A.	London		CA	
Henkelman, R. Mark	Toronto		CA	

US-CL-CURRENT: 600/410; 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw D
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☐ 6. Document ID: US 6717406 B2

L21: Entry 6 of 14

File: USPT

Apr 6, 2004

US-PAT-NO: 6717406
DOCUMENT-IDENTIFIER: US 6717406 B2

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel K.	Newton	MA		

US-CL-CURRENT: 324/307; 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMC	Draw D
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☐ 7. Document ID: US 6549799 B2

L21: Entry 7 of 14

File: USPT

Apr 15, 2003

US-PAT-NO: 6549799
DOCUMENT-IDENTIFIER: US 6549799 B2

TITLE: Concurrent MRI of multiple objects

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bock; Nicholas A.	London			CA
Henkelman; R. Mark	Toronto			CA

US-CL-CURRENT: 600/422; 324/307, 324/309, 600/410, 600/411

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draws
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☐ 8. Document ID: US 6507749 B1

L21: Entry 8 of 14

File: USPT

Jan 14, 2003

US-PAT-NO: 6507749

DOCUMENT-IDENTIFIER: US 6507749 B1

TITLE: Method and apparatus for tracking the motion of fluid and determining a velocity spectrum thereof from MR data acquired in a single cycle

DATE-ISSUED: January 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Macgowan; Christopher K.	Toronto			CA
Wood; Michael L.	Toronto			CA

US-CL-CURRENT: 600/419; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draws
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☐ 9. Document ID: US 6400151 B1

L21: Entry 9 of 14

File: USPT

Jun 4, 2002

US-PAT-NO: 6400151

DOCUMENT-IDENTIFIER: US 6400151 B1

TITLE: Method and apparatus for the acquisition of data for magnetic resonance imaging

DATE-ISSUED: June 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haase; Axel	97222 Rimpar			DE
Jakob; Peter M.	97074 Wurzburg			DE
Hillenbrand; Claudia	97720 Nudlingen			DE
Hahn; Dietbert	97273 Kurnach			DE

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 10. Document ID: US 6366092 B1

L21: Entry 10 of 14

File: USPT

Apr 2, 2002

US-PAT-NO: 6366092

DOCUMENT-IDENTIFIER: US 6366092 B1

TITLE: Magnetic resonance imaging

DATE-ISSUED: April 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ehnholm; Gosta J	Helsinki			FI
Young; Ian Robert	Marlborough			GB

US-CL-CURRENT: 324/309; 324/300, 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 11. Document ID: US 6289232 B1

L21: Entry 11 of 14

File: USPT

Sep 11, 2001

US-PAT-NO: 6289232

DOCUMENT-IDENTIFIER: US 6289232 B1

TITLE: Coil array autocalibration MR imaging

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jakob; Peter M.	Brookline Village	MA		
Sodickson; Daniel K.	Cambridge	MA		
Griswold; Mark	Brookline	MA		

US-CL-CURRENT: 600/410; 324/307, 324/309, 324/318, 324/322, 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 12. Document ID: US 5910728 A

L21: Entry 12 of 14

File: USPT

Jun 8, 1999

US-PAT-NO: 5910728

DOCUMENT-IDENTIFIER: US 5910728 A

TITLE: Simultaneous acquisition of spatial harmonics (SMASH): ultra-fast imaging
with radiofrequency coil arrays

DATE-ISSUED: June 8, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel Kevin	Cambridge	MA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw. De
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☐ 1. Document ID: US 20030076099 A1

Using default format because multiple data bases are involved.

L22: Entry 1 of 13

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030076099

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030076099 A1

TITLE: Reduced signal to noise ratio array coil image

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hajnal, Joseph V.	London		GB	
Bydder, Mark	London		GB	
Larkman, David J.	London		GB	

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 2. Document ID: US 20030030437 A1

L22: Entry 2 of 13

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030030437

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030030437 A1

TITLE: Magnetic resonance imaging using smash

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bydder, Mark	Ealing		GB	
Hajnal, Joseph V.	London		GB	
Larkman, David J.	London		GB	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20020158632 A1

L22: Entry 3 of 13

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020158632

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020158632 A1

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sodickson MD Ph.D., Daniel K.	Cambridge	MA	US	

US-CL-CURRENT: 324/307; 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 20020156362 A1

L22: Entry 4 of 13

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020156362

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020156362 A1

TITLE: Concurrent MRI of multiple objects

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bock, Nicholas A.	London		CA	
Henkelman, R. Mark	Toronto		CA	

US-CL-CURRENT: 600/410; 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 6717406 B2

L22: Entry 5 of 13

File: USPT

Apr 6, 2004

US-PAT-NO: 6717406
DOCUMENT-IDENTIFIER: US 6717406 B2

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel K.	Newton	MA		

US-CL-CURRENT: 324/307; 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw Dg
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☐ 6. Document ID: US 6549799 B2

L22: Entry 6 of 13

File: USPT

Apr 15, 2003

US-PAT-NO: 6549799
DOCUMENT-IDENTIFIER: US 6549799 B2

TITLE: Concurrent MRI of multiple objects

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bock; Nicholas A.	London			CA
Henkelman; R. Mark	Toronto			CA

US-CL-CURRENT: 600/422; 324/307, 324/309, 600/410, 600/411

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw Dg
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☐ 7. Document ID: US 6507749 B1

L22: Entry 7 of 13

File: USPT

Jan 14, 2003

US-PAT-NO: 6507749
DOCUMENT-IDENTIFIER: US 6507749 B1

TITLE: Method and apparatus for tracking the motion of fluid and determining a velocity spectrum thereof from MR data acquired in a single cycle

DATE-ISSUED: January 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Macgowan; Christopher K. Toronto CA
Wood; Michael L. Toronto CA

US-CL-CURRENT: 600/419; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw D
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☐ 8. Document ID: US 6400151 B1

L22: Entry 8 of 13

File: USPT

Jun 4, 2002

US-PAT-NO: 6400151

DOCUMENT-IDENTIFIER: US 6400151 B1

TITLE: Method and apparatus for the acquisition of data for magnetic resonance imaging

DATE-ISSUED: June 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haase; Axel	97222 Rimpar			DE
Jakob; Peter M.	97074 Wurzburg			DE
Hillenbrand; Claudia	97720 Nudlingen			DE
Hahn; Dietbert	97273 Kurnach			DE

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw D
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☐ 9. Document ID: US 6366092 B1

L22: Entry 9 of 13

File: USPT

Apr 2, 2002

US-PAT-NO: 6366092

DOCUMENT-IDENTIFIER: US 6366092 B1

TITLE: Magnetic resonance imaging

DATE-ISSUED: April 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ehnholm; Gosta J	Helsinki			FI
Young; Ian Robert	Marlborough			GB

US-CL-CURRENT: 324/309; 324/300, 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw D
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☐ 10. Document ID: US 6289232 B1

L22: Entry 10 of 13

File: USPT

Sep 11, 2001

US-PAT-NO: 6289232

DOCUMENT-IDENTIFIER: US 6289232 B1

TITLE: Coil array autocalibration MR imaging

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jakob; Peter M.	Brookline Village	MA		
Sodickson; Daniel K.	Cambridge	MA		
Griswold; Mark	Brookline	MA		

US-CL-CURRENT: 600/410; 324/307, 324/309, 324/318, 324/322, 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 11. Document ID: US 5910728 A

L22: Entry 11 of 13

File: USPT

Jun 8, 1999

US-PAT-NO: 5910728

DOCUMENT-IDENTIFIER: US 5910728 A

TITLE: Simultaneous acquisition of spatial harmonics (SMASH): ultra-fast imaging with radiofrequency coil arrays

DATE-ISSUED: June 8, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel Kevin	Cambridge	MA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 12. Document ID: US 5488299 A

L22: Entry 12 of 13

File: USPT

Jan 30, 1996

US-PAT-NO: 5488299

DOCUMENT-IDENTIFIER: US 5488299 A

TITLE: Nuclear magnetic resonance imaging with improved image quality and operation

efficiency

DATE-ISSUED: January 30, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kondo; Masafumi	Tochigi			JP
Kawamoto; Hiromi	Tochigi			JP

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 13. Document ID: US 4746864 A

L22: Entry 13 of 13

File: USPT

May 24, 1988

US-PAT-NO: 4746864

DOCUMENT-IDENTIFIER: US 4746864 A

TITLE: Magnetic resonance imaging system

DATE-ISSUED: May 24, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sato; Kozo	Yokohama			JP

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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Term	Documents
SINGULAR	38570
SINGULARS	15
VALUE	3014577
VALUES	1459132
DECOMPOSITION	292214
DECOMPSN	10739
DECOMPSNS	19
DECOMPOSITIONS	2648
LEAST	5517160
LEASTS	92

EIGENVALUE	2277
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☐ 1. Document ID: US 20030076099 A1

Using default format because multiple data bases are involved.

L23: Entry 1 of 11

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030076099

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030076099 A1

TITLE: Reduced signal to noise ratio array coil image

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hajnal, Joseph V.	London		GB	
Bydder, Mark	London		GB	
Larkman, David J.	London		GB	

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 2. Document ID: US 20030030437 A1

L23: Entry 2 of 11

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030030437

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030030437 A1

TITLE: Magnetic resonance imaging using smash

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bydder, Mark	Ealing		GB	
Hajnal, Joseph V.	London		GB	
Larkman, David J.	London		GB	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des
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☐ 3. Document ID: US 20020158632 A1

L23: Entry 3 of 11

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020158632
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020158632 A1

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sodickson MD Ph.D., Daniel K.	Cambridge	MA	US	

US-CL-CURRENT: 324/307; 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des
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☐ 4. Document ID: US 20020156362 A1

L23: Entry 4 of 11

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020156362
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020156362 A1

TITLE: Concurrent MRI of multiple objects

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bock, Nicholas A.	London		CA	
Henkelman, R. Mark	Toronto		CA	

US-CL-CURRENT: 600/410; 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des
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☐ 5. Document ID: US 6717406 B2

L23: Entry 5 of 11

File: USPT

Apr 6, 2004

US-PAT-NO: 6717406
DOCUMENT-IDENTIFIER: US 6717406 B2

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel K.	Newton	MA		

US-CL-CURRENT: 324/307; 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 6. Document ID: US 6549799 B2

L23: Entry 6 of 11

File: USPT

Apr 15, 2003

US-PAT-NO: 6549799
DOCUMENT-IDENTIFIER: US 6549799 B2

TITLE: Concurrent MRI of multiple objects

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bock; Nicholas A.	London			CA
Henkelman; R. Mark	Toronto			CA

US-CL-CURRENT: 600/422; 324/307, 324/309, 600/410, 600/411

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 7. Document ID: US 6400151 B1

L23: Entry 7 of 11

File: USPT

Jun 4, 2002

US-PAT-NO: 6400151
DOCUMENT-IDENTIFIER: US 6400151 B1

TITLE: Method and apparatus for the acquisition of data for magnetic resonance imaging

DATE-ISSUED: June 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Haase; Axel	97222 Rimpär	DE
Jakob; Peter M.	97074 Wurzburg	DE
Hillenbrand; Claudia	97720 Nudlingen	DE
Hahn; Dietbert	97273 Kurnach	DE

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des.
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☐ 8. Document ID: US 6366092 B1

L23: Entry 8 of 11

File: USPT

Apr 2, 2002

US-PAT-NO: 6366092

DOCUMENT-IDENTIFIER: US 6366092 B1

TITLE: Magnetic resonance imaging

DATE-ISSUED: April 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ehnholm; Gosta J	Helsinki			FI
Young; Ian Robert	Marlborough			GB

US-CL-CURRENT: 324/309; 324/300, 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des.
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☐ 9. Document ID: US 6289232 B1

L23: Entry 9 of 11

File: USPT

Sep 11, 2001

US-PAT-NO: 6289232

DOCUMENT-IDENTIFIER: US 6289232 B1

TITLE: Coil array autocalibration MR imaging

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jakob; Peter M.	Brookline Village	MA		
Sodickson; Daniel K.	Cambridge	MA		
Griswold; Mark	Brookline	MA		

US-CL-CURRENT: 600/410; 324/307, 324/309, 324/318, 324/322, 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des.
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☐ 10. Document ID: US 5910728 A

L23: Entry 10 of 11

File: USPT

Jun 8, 1999

US-PAT-NO: 5910728

DOCUMENT-IDENTIFIER: US 5910728 A

TITLE: Simultaneous acquisition of spatial harmonics (SMASH): ultra-fast imaging
with radiofrequency coil arrays

DATE-ISSUED: June 8, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel Kevin	Cambridge	MA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 11. Document ID: US 5488299 A

L23: Entry 11 of 11

File: USPT

Jan 30, 1996

US-PAT-NO: 5488299

DOCUMENT-IDENTIFIER: US 5488299 A

TITLE: Nuclear magnetic resonance imaging with improved image quality and operation
efficiency

DATE-ISSUED: January 30, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kondo; Masafumi	Tochigi			JP
Kawamoto; Hiromi	Tochigi			JP

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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Term	Documents
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BASE	3490412
BASES	373371
GAUSSIAN	30572
GAUSSIANS	600
WAVELET	8058
WAVELETS	2678
WAVE-LET	28
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